

APPLN. FILING DATE: JULY 9, 2001
TITLE: HUMAN BASIC FIBROBLAST GROWTH FACTOR ANALOG
INVENTOR(S): JOHN C. FIDDLES, ET AL.
APPLICATION SERIAL NO: 09/902,460

SHEET 2 of 8

FIG. 1-2

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1104      1119      1134      1149
TGC ATT CAC CCC GAC GGC CGA GTT GAC GGG GTC CGG GAG AAG AGC GAC CCT CAC ATC
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile

1164      1179      1194
AAG GTA CAA GTT CAA GCA GAA GAG AGA GCA GTT GTG TCT ATC AAA GSA GTG TGT GGT
Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala

1224      1239      1254
AAC GGT TAC GTC GCT ATC AAG GAA GAT GGA AGA TTA CTG GCT TCT AAA TGT GTT ACG
Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys Val Thr

1269      1284      1299      1314
GAT GAG TGT TGC TTT TTT GAA GCA TTG GAA TCT AAT AAC TAC AAT ACT TAC GGG TCA
Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser

1329      1344      1359      1374
AGC AAA TAT AGC AGT TCG TAT GTC GCA TTG AAA GCA ACT GGG CAC TAT AAA TTT GGA
Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly

1389      1404      1419      1434
TCC AAA ACA GGA CCT GGG CAG AAA GCT ATA CTT TTT CTT CCA ATC TCT GCT AAG ACG
Ser Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser

1450      1460      1470      1480      1490      1500
TGA TTT TAATGGGTAC ATCTAATCTC ATTCTACATG AAAGAAGAAAG TATATCTATC AATCTTCTCA

1510      1520      1530      1540      1550      1560      1570
ATCAGAGTAA AAGAAAATAA ATGTGTATAG CTCAGTTTGG ATAATTGGTC AAACAATTTT TTATCCAGTA

1580      1590      1600      1610      1620      1630      1640
GTAAATATAG TAACCATGGC GAGTAAAGAA AAATAACAAA AGTTGTAAAA TGTATATTCT CCGTTTATTA

1650      1660      1670      1680      1690      1700      1710
TTCCATCTGT TGTACCGCAG TGAAGCTTAC CTAGAGCAAT GATCTTTTTG ACGCATTTGC TTTATTGAAA

1720      1730      1740      1750      1760      1770      1780
AAGAGCTTTT TAAAATGTGC ATGTTTAGAA AACAAAAATT CTTCATGGAA ATCATATACA TTAGAAAATC

1790      1800      1810      1820      1830      1840      1850
ACAGTACAGT GTTAAATCAA TTTAAAAATC TCAATATATT GTTATGTGAA TCGTAAGCTT AATATCTCTT

1860      1870      1880      1890      1900      1910      1920
AAATATATAA ATCTCAATTT AATCAATTCG TTTATAGTTT TTATTAATCT TTGTAAGTTT TTTATGATAA

1930      1940      1950      1960      1969
AGGTATATAA AATCTTCTGT TAAAATGCTT CGAAGTTCTT CCGGAATCT

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FIG. 2

Human Acidic FGF

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      27
TGC ATT TTG TGC CTT TGC TGG AAG AAC CGA CTA CAG GTT TGT TCA ATT TGT TAC      54
      81
AGT CTT GAA AGC GCC ACA AGC AGC AGC TGC TGA GCC ATG GCT GAA GGG GAA ATC      108
                                MET Ala Glu Gly Glu Ile
      135
AGC ACC TTC ACA GGC CTG ACC GAG AAG TTT AAT CTG CTT GCA GGG AAT TAC AAG      162
TAC Thr Phe Thr Ala Leu Thr Glu Lys Phe Asn Leu Pro Pro Gly Asn Tyr Lys
      20
      189
AAG CCC AAA CTC CTC TAC TGT AGC AAG GGG GGC CAC TTC CTG ACC ATT CTT GCG      216
Lys Pro Lys Leu Leu Tyr Cys Ser Asn Gly Gly His Phe Leu Arg Ile Leu Pro
      30
      243
GAT GGC ACA GTG GAT GGC ACA AGG GAC AGG AGC GAC CAG CAC ATT CAG CTG CAG      270
Asp Gly Thr Val Asp Gly Thr Arg Asp Arg Ser Asp Gln His Ile Gln Leu Gln
      50
      297
CTC AGT GCG GAA AGC CTG GCG GAG GTG TAT ATA AAG AAT ACC GAG AAT GCG CAG      324
Leu Ser Ala Glu Ser Val Gly Glu Val Tyr Ile Lys Ser Thr Glu Thr Gly Gln
      70
      351
TAC TTG GCG ATG GAC ACC GAC GGG CTT TTA TAC GGC TCA CAG ACA GCA AAT GAG      378
Tyr Leu Ala MET Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asn Glu
      80
      405
GAA TGT TTG TTC CTG GAA AGG CTG GAG GAG AAC CAT TAC AAC ACC TAT ATA TGC      432
Glu Cys Leu Phe Leu Glu Arg Leu Glu Glu Asn His Tyr Asn Thr Tyr Ile Ser
      100
      459
AAG AAG CAT GCA GAG AAG AAT TCG TTT GTT GCG CTC AAG AAC AAT GCG AAG TTT      486
Lys Lys His Ala Glu Lys Asn Trp Phe Val Gly Leu Lys Lys Asn Gly Ser Tyr
      120
      513
AAA GCG GGT CCT GCG ACP CAC TAT GGC CAG AAA GCA ATC TIG TTT CTC GCG CTG      540
Lys Arg Gly Pro Arg Thr His Tyr Gly Gln Lys Ala Ile Leu Phe Leu Pro Leu
      140
      567
GCA CTC TGT TGT GAT TAA ACA CAT CTC TTC TGC GTC CTC AAG AAT GCA GAG AAG      594
Pro Val Ser Ser Asp
      155
      621
TTT TTA GCG GGT GGT AAT TGT TTC AAT TAA AAA TTT TTT TTT TTT TTT TTT TTT
  
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Comparison of amino acid sequence of human basic and acidic FGF

(basic/acidic)

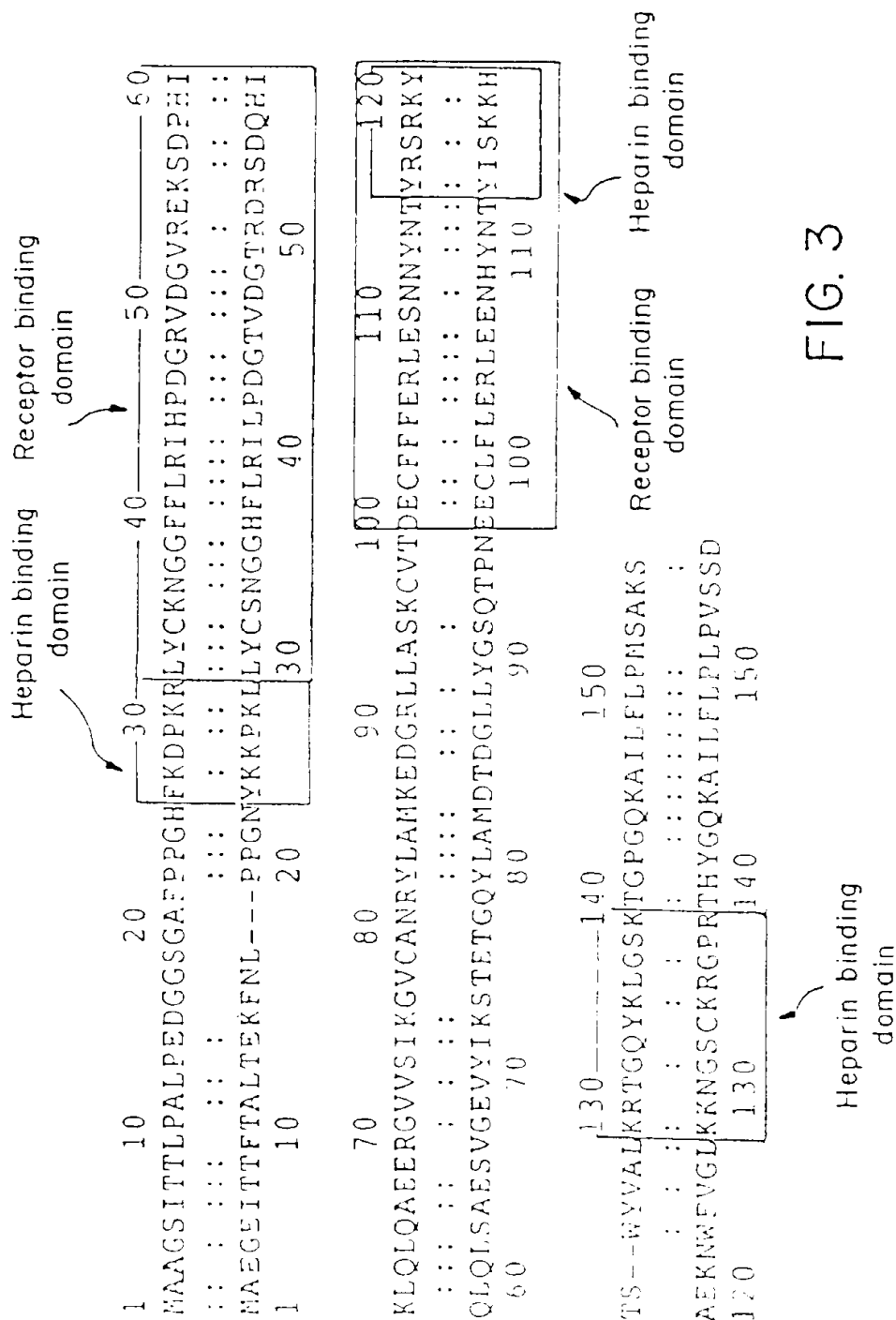
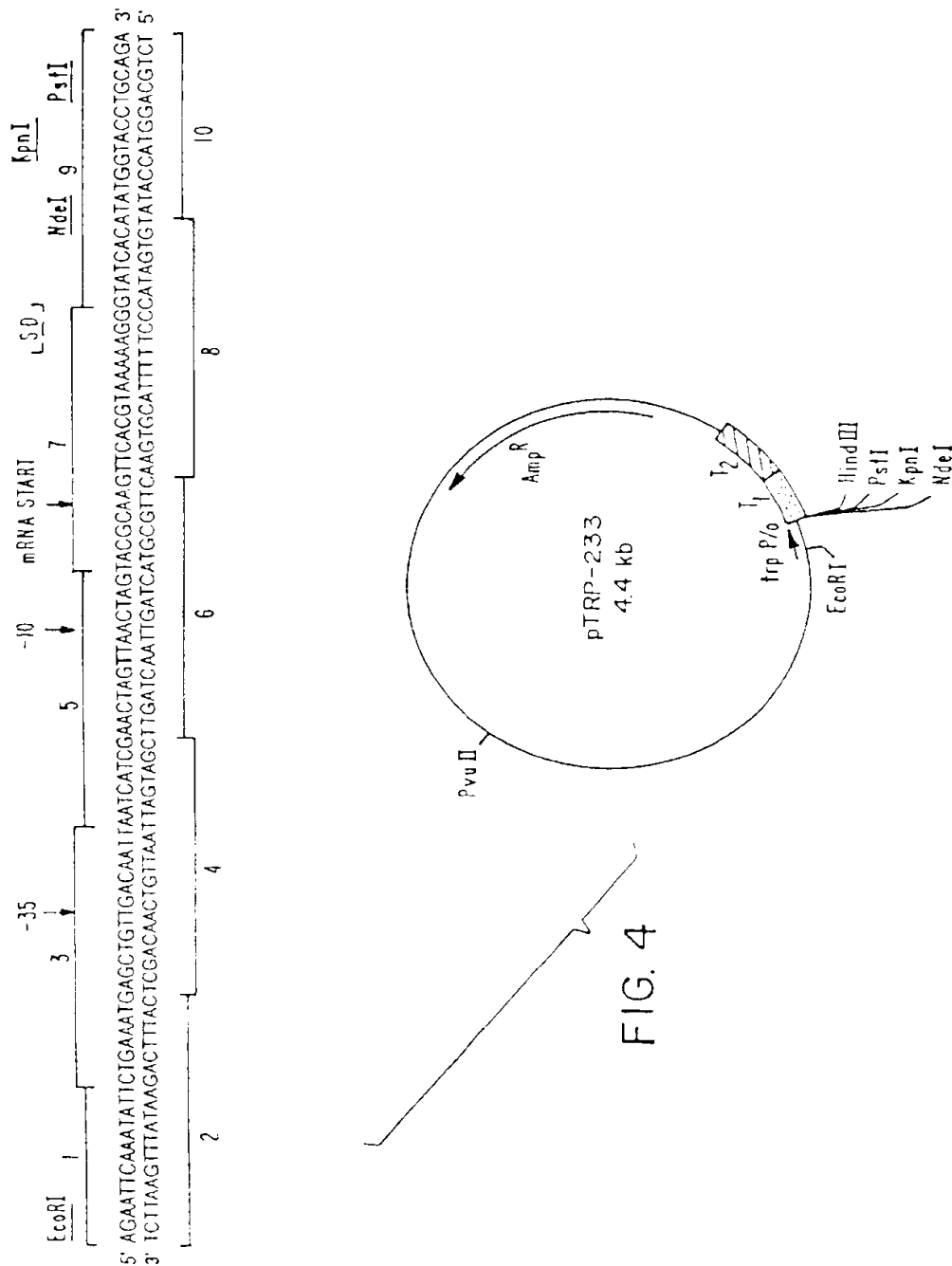


FIG. 3



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SHEET 6 of 8

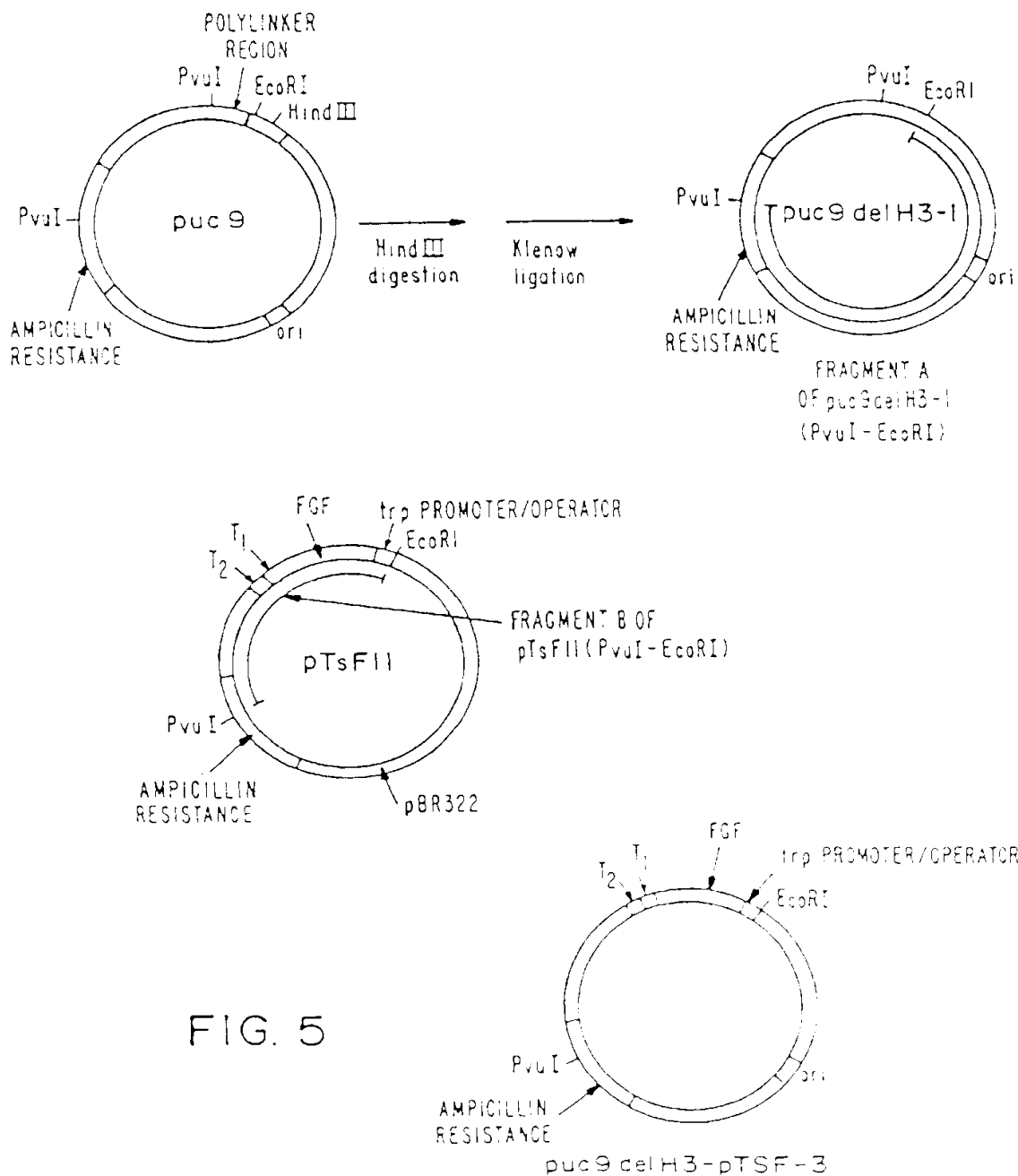


FIG. 5

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SHEET 7 of 8

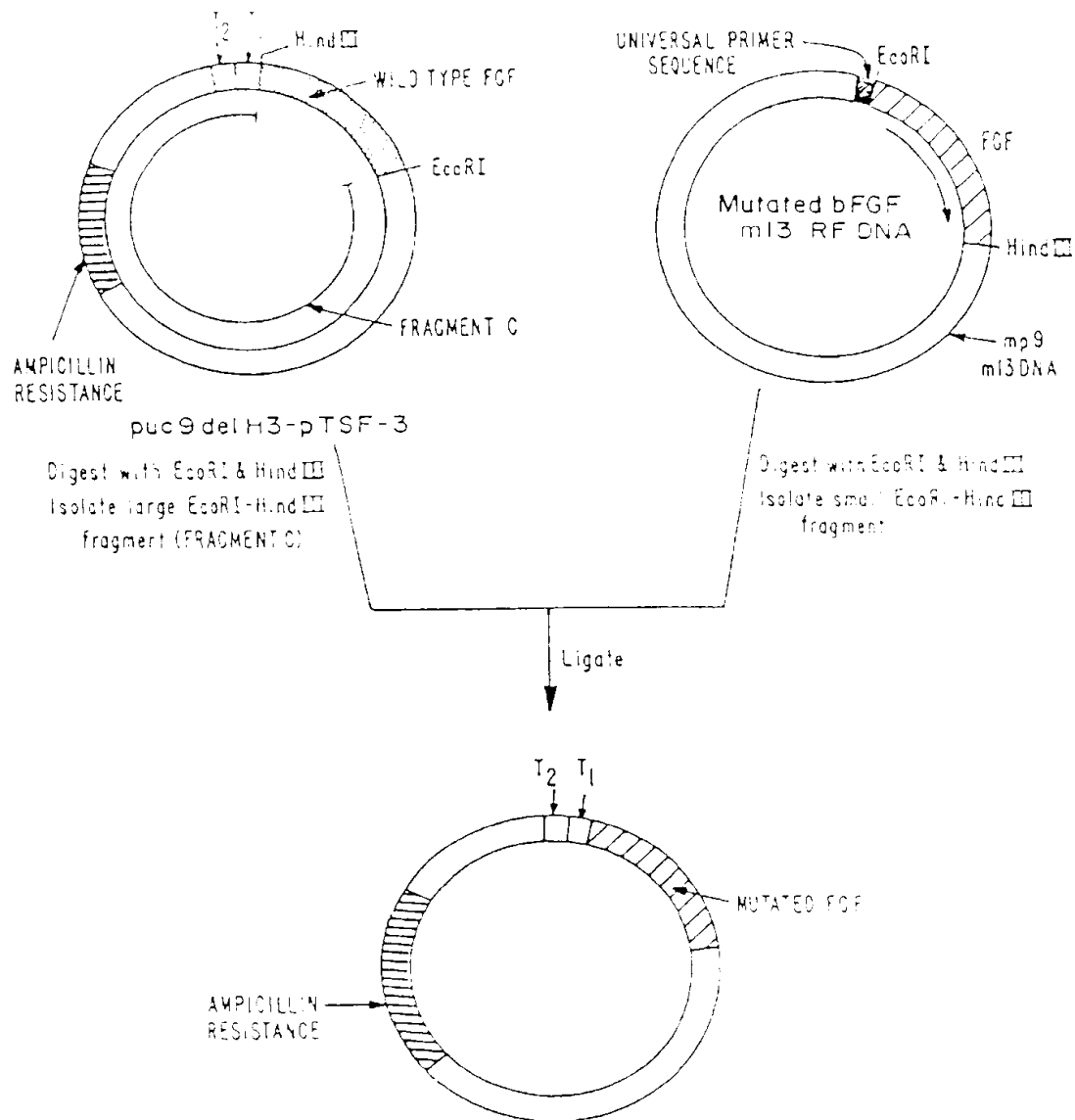


FIG. 6

FIG. 7

